

Rabbit anti-Human COL6A1 Polyclonal Antibody | anti-COL6A1 antibody

Anti-COL6A1 Antibody Picoband

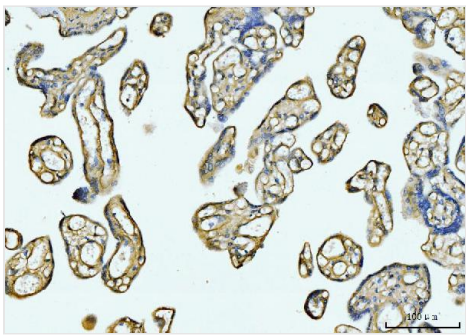
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19451	Rabbit	Human	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

COL6A1; Polyclonal Antibody; Anti-COL6A1 Antibody Picoband; anti-COL6A1 antibody

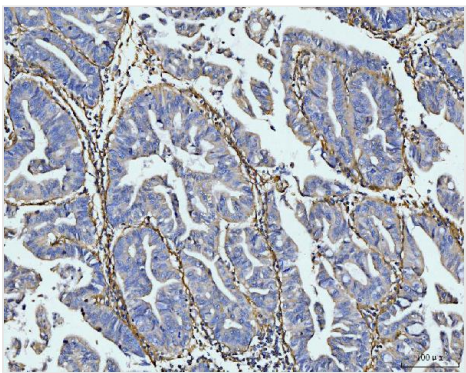
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-COL6A1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Application Notes	WB: 0.1-0.25 ug/ml, Human IHC-P: 1-2 ug/ml, Human Direct ELISA: 0.1-0.5 ug/ml, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P).
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human COL6A1 recombinant protein (Position: Q20-G1028).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



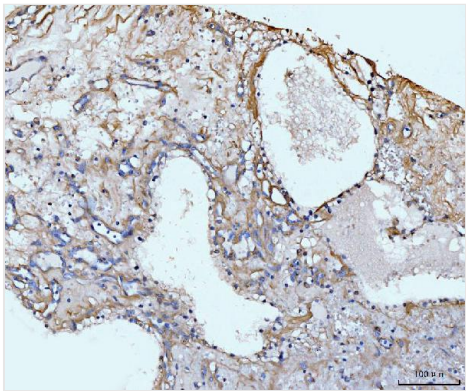
IHC (Immunohistochemistry)

Figure 7. IHC analysis of COL6A1 using anti-COL6A1 antibody (AAA19451).COL6A1 was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-COL6A1 Antibody (AAA19451) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



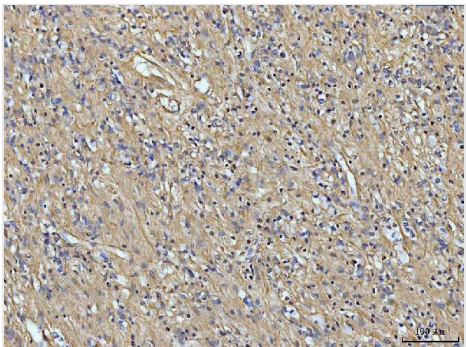
IHC (Immunohistochemistry)

Figure 6. IHC analysis of COL6A1 using anti-COL6A1 antibody (AAA19451).COL6A1 was detected in a paraffin-embedded section of human gastric adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-COL6A1 Antibody (AAA19451) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



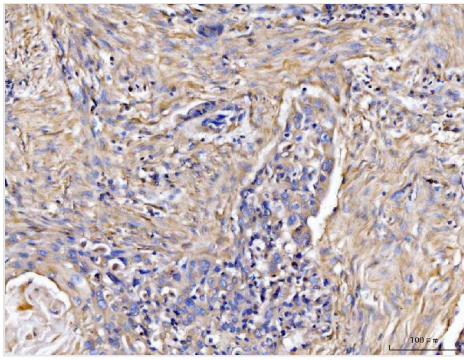
IHC (Immunohistochemistry)

Figure 5. IHC analysis of COL6A1 using anti-COL6A1 antibody (AAA19451).COL6A1 was detected in a paraffin-embedded section of human renal clear cell carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-COL6A1 Antibody (AAA19451) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



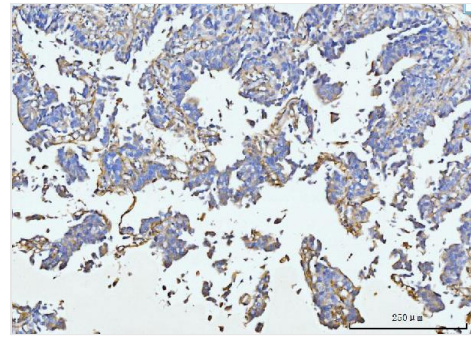
IHC (Immunohistochemistry)

Figure 4. IHC analysis of COL6A1 using anti-COL6A1 antibody (AAA19451).COL6A1 was detected in a paraffin-embedded section of human gastric adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-COL6A1 Antibody (AAA19451) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of COL6A1 using anti-COL6A1 antibody (AAA19451). COL6A1 was detected in a paraffin-embedded section of human esophageal squamous carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-COL6A1 Antibody (AAA19451) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of COL6A1 using anti-COL6A1 antibody (AAA19451). COL6A1 was detected in a paraffin-embedded section of human colonic adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-COL6A1 Antibody (AAA19451) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-COL6A1 antibody	Collagen alpha-1(VI) chain is a protein that in humans is encoded by the COL6A1 gene. The collagens are a superfamily of proteins that play a role in maintaining the integrity of various tissues. Collagens are extracellular matrix proteins and have a triple-helical domain as their common structural element. Collagen VI is a major structural component of microfibrils. The basic structural unit of collagen VI is a heterotrimer of the alpha1(VI), alpha2(VI), and alpha3(VI) chains. The alpha2(VI) and alpha3(VI) chains are encoded by the COL6A2 and COL6A3 genes, respectively. The protein encoded by this gene is the alpha 1 subunit of type VI collagen (alpha1(VI) chain). Mutations in the genes that code for the collagen VI subunits result in the autosomal dominant disorder, Bethlem myopathy.
Product Categories/Family for anti-COL6A1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	87196339
NCBI GeneID	1291
NCBI Accession #	NP_001839.2
NCBI GenBank Nucleotide #	NM_001848.2
UniProt Accession #	P12109; O00117; O00118; Q14040; Q14041; Q16258; Q7Z645; Q9BSA8
Molecular Weight	108,529 Da
NCBI Official Full Name	collagen alpha-1(VI) chain
NCBI Official Synonym Full Names	collagen, type VI, alpha 1
NCBI Official Symbol	COL6A1
NCBI Official Synonym Symbols	OPLL
NCBI Protein Information	collagen alpha-1(VI) chain; collagen alpha-1(VI) chain; alpha 1 (VI) chain (61 AA); collagen VI, alpha-1 polypeptide
UniProt Protein Name	Collagen alpha-1(VI) chain
UniProt Gene Name	COL6A1
UniProt Entry Name	CO6A1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/col6a1-antibody-western-blot-immunohistochemistry-elisa/19451>